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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Applicants: **Martin KAMP, Martin MULLER**

Atty. Doc.: **Nanoplus-2**

Serial No.: **10/734,104**

Filed: **December 11, 2003**

Group Art Unit: **2828**

Confirmation No.: **1655**

Examiner:

Title: **A SEMICONDUCTOR LASER ARRAY WITH A LATTICE STRUCTURE**

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

DISCLOSURE STATEMENT

The applicants respectfully request that the following references be considered in the examination of the above-identified application. A copy of each reference is enclosed.

United States Patents

<u>Patent Number</u>	<u>Inventor</u>	<u>Date Issued</u>	<u>Class</u>
AA. 6,665,325	Beck et al	Dec. 16, 2003	372/46
AB. 6,560,259	Hwang	May 6, 2003	372/45
AC. 6,400,744	Capasso et al	June 4, 2002	372/96
AD. 6,137,817	Baillargeon et al	Oct. 24, 2000	372/45
AE. 5,978,397	Capasso et al	Nov. 2, 1999	372/45
AF. 5,936,989	Capasso et al	Aug. 10, 1999	372/45
AG. 5,509,025	Capasso et al	April 16, 1996	372/45
AH. 5,457,709	Capasso et al	Oct. 10, 1995	372/45

United States Published Patent Application

<u>Patent Number</u>	<u>Inventor</u>	<u>Date Published</u>	<u>Class</u>
AI. 2004/0013145	Faist et al	Jan. 22, 2004	372/45

European Published Patent Applications

<u>Publication Number</u>	<u>Date Published</u>
AJ. 1 133 035	Sep. 12, 2001
AK. 0 877 454	Nov. 11, 1998

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REMARKS

Under rule 37 C.F.R. 1.98(a) (effective March 16, 1992), since all of the above-cited references are in the English language, the applicants submit that no specific comments are necessary for any of these.

For the Examiner's convenience, the applicants have attached a completed Form PTO/SB/08A&B hereto.

Respectfully submitted,

August 18, 2004

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CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on **August 18, 2004** with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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LIST OF REFERENCES CITED BY

APPLICANT

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Application Number: **10/734,104**
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 Filing Date: **December 11, 2003**
 First Named Inventor: **Martin KAMP**
 Group Art Unit: **2828**
 Examiner Name:

Sheet

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of

5Attorney Docket No.: **Nanoplus-2**

U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Application Number	Kind code ²	Name of Applicant of Cited Application	Date of Filing of Cited Application MM-DD-YYYY	US Class/ Sub Class	Pages, Columns, Lines where relevant Passages or Figures appear
	AA.	6,665,325		Beck et al	12-16-2003	372/46	
	AB.	6,560,259		Hwang	05-06-2003	372/45	
	AC.	6,400,744		Capasso et al	06-04-2002	372/96	
	AD.	6,137,817		Baillargeon et al	10-24-2000	372/45	
	AE.	5,978,397		Capasso et al	11-02-1999	372/45	
	AF.	5,936,989		Capasso et al	08-10-1999	372/45	
	AG.	5,509,025		Capasso et al	04-16-1996	372/45	
	AH.	5,457,709		Capasso et al	10-10-1995	372/45	

U.S. PUBLISHED PATENT APPLICATION DOCUMENT

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	AI.	2004/0013145		Faist et al	01-22-2004	372/45	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Office ³ Number ⁴	Kind Code ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	AJ.	EP 1 133 035			09-12-2001		
	AK.	EP 0 877 454			11-11-1998		

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1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

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LIST OF REFERENCES CITED BY APPLICANT (use as many sheets as necessary)			Application Number: 10/734,104 Confirmation No.: 1655 Filing Date: December 11, 2003 First Named Inventor: Martin KAMP Group Art Unit: 2828 Examiner Name:		
Sheet	2	of	5	Attorney Docket No.: Nanoplus-2	

OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source			T ²
	AL.	Aellen et al, "Continuous-Wave Distributed-Feedback Quantum-Cascade Lasers on a Peltier Cooler", <u>Applied Physics Letters</u> , (© 2003 American Institute of Physics) vol. 83, no. 10, September 8, 2003, pp. 1929-1931.			
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	AN.	Anders et al, "Room Temperature Lasing of Electrically Pumped Quantum Cascade Micro-cylinders", <u>Physica E</u> (2003), (© 2002 Elsevier Science B.V.) vol. 17, pp. 626-628.			
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	AR.	Colombelli et al, "Quantum Cascade Surface-Emitting Photonic Crystal Laser", <u>Science</u> , vol. 302, November 21, 2003, pp. 1374-1377.			
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	AX.	Gmachl et al, "Quantum Cascade Lasers with a Heterogeneous Cascade: Two-Wavelength Operation" <u>Applied Physics Letters</u> (© 2001 American Institute of Physics) vol. 79, no. 5, July 30, 2001, pp. 572-574.	
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	BI.	Kohler et al, "Single-Mode Tunable, Pulsed, and Continuous Wave Quantum-Cascade Distributed Feedback Lasers at $\lambda \approx 4.6-4.7 \mu\text{m}$ ", <u>Applied Physics Letters</u> (© 2000 American Institute of Physics) vol. 76, no. 9, February 28, 2000, pp. 1092-1094.		
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	BU.	Schrenk et al, "GaAs/AlGaAs Distributed Feedback Quantum Cascade Lasers", <u>Applied Physics Letters</u> (© 2000 American Institute of Physics) vol. 76, no. 3, January 17, 2000, pp. 253-255.		
	BV.	Schrenk et al, "High Performance Single Mode GaAs Quantum Cascade Lasers", <u>Physica E</u> (© 2002 Elsevier Science B.V.) vol. 12, pp. 840-843.		
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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.

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